# PATENT COOPERATION TREATY



REC'D 16 FEB 2005

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			nt's file reference	FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
14836-9PCT			- ti No	Indo-matica al filina adolo d	(ala., (ba. a.a.	<u>.</u>	<u> </u>	
International application No. PCT/CA 03/01602				27.10.2003	International filing date (day/month/year) 27.10.2003		Priority date (day/month/year) 25.10.2002	
Inter	International Patent Classification (IPC) or both national classification and IPC						L	
B81	B7/00	)						
1	licant							
MIC	CROB	RIDG	E TECHNOLOGIES	INC. et al.				
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						rnational Preliminary Examining	
		•						
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.							
	11110	••••		or o oncore, moraumig a		2110011		
							on, claims and/or drawings which have ectifications made before this Authority	
		(see	Rule 70.16 and Section	n 607 of the Administrat	ive Instr	uctions under t	the PCT).	
	Thes	se ani	nexes consist of a total	of sheets.				
3.	This	repoi	t contains indications re	elating to the following it	ems:			
ŀ	ı	$\boxtimes$	Basis of the opinion					
	II		Priority					
	Ш		Non-establishment of	opinion with regard to n	ovelty, i	nventive step a	and industrial applicability	
	IV		Lack of unity of invent	tion				
	V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						ventive step or industrial applicability;	
	VI		Certain documents cit					
	VII		Certain defects in the	international application	1			
ĺ	VIII   Certain observations on the international application							
					Data o	f completion of the		
Date of submission of the demand			Date o	f completion of th	ns report			
25.05.2004			11.02	.2005				
			 	100				
Name and malling address of the international preliminary examining authority:					Author	ized Officer	and Section Palantemp.	
European Patent Office - Gitschiner Str. 103 D-10958 Berlin				schiner Str. 103	Poles	ello, P		
Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 840						one No. +49 30 2	25901-757	
1 22. 770 00 20001 070					Leiebii	O. 6 140. T45 30 2	COSO 1-101	

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CA 03/01602

I. Basis	of the	report
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 With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):
 Description, Pages

	Description, Pages								
	1-14		as originally filed						
Claims, Numbers									
	1-43	•	as originally filed						
	Drav	Drawings, Sheets							
	1/5-5	5/5	as originally filed						
2.	With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.								
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:						
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).						
	☐ the language of publication of the international application (under Rule 48.3(b)).								
		the language of a tra Rule 55.2 and/or 55.	nslation furnished for the purposes of international preliminary examination (under 3).						
з.	With inte	n regard to any <b>nucle</b> rnational preliminary	ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:						
	☐ contained in the international application in written form.								
	☐ filed together with the international application in computer readable form.								
	☐ furnished subsequently to this Authority in written form.								
	☐ furnished subsequently to this Authority in computer readable form.								
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.							
4.	The	amendments have r	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						

☐ the drawings,

sheets:

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)	Yes:	Claims	1-43
	No:	Claims	none
Inventive step (IS)	Yes:	Claims	1-43
	No:	Claims	none
Industrial applicability (IA)	Yes:	Claims	1-43
	No:	Claims	none

2. Citations and explanations

see separate sheet



#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: US-B-6 379 9881 (CONLEY WILLIAM R ET AL) 30 April 2002 (2002-04-30)

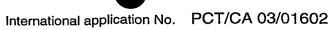
- 2. Although claims 16 and 32 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.
- 3. Document D1, which is considered to represent the most relevant state of the art, discloses (cf. figures 4A-4H) a method for producing a packaged integrated circuit and a packaged integrated circuit from which the subject-matter of claims 1,16 and 32 differs in that the MEMS structure comprises a heater and the protective material on it is removed by heating.
- 3.1. The subject-matter of claims 1,16 and 32 is therefore new (Article 33(2) PCT).
- 3.1.1. The problem to be solved by the present invention may be regarded as removing the protecting material without having to etch it.
- 3.1.2. The solution to this problem proposed in claims 1,16 and 32 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

in D1 it is explicitly said that the protective material is etched and no hint is made towards using the microheater in the structure for heating the encapsulating material.

Claims 2-15, 17-31, 33-43 are respectively dependent on claims 1,16 and 32 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

4. Claims 1-43 meet the requirements of Article 33(4) PCT with respect to industrial applicability.





**EXAMINATION REPORT - SEPARATE SHEET**